

LIST OF PRIOR ART CITED BY APPLICANT

Sheet 1 of 2

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
gw	AA	5,141,873	Aug. 25, 1992	Steudle, et al.	436	148	
am	AB	5,665,065	Sept. 9, 1997	Colman, Fredric	604	66	
am	AC	5,967,975	Oct. 19, 1999	Ridgeway, Donald G.	600	300	
am	AD	6,102,856	Aug. 15, 2000	Groff, Clarence	600	301	
am	AE	6,113,539	Sept. 5, 2000	Ridenour, Ken	600	300	
am	AF	6,150,942	Nov. 21, 2000	O'Brien	340	573.1	
am	AG	6,198,394	Mar. 6, 2001	Jacobsen, et al.	340	573.1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

am	AH		ALBIN, G.W., "Theoretical and Experimental Studies of Glucose Sensitive Membranes," J. Controlled Release, 1987, pg. 267-291, vol. 6.
am	AI		ALLCOCK, H. R., "Synthesis and Characterization of pH-Sensitive Poly(organophosphazene) Hydrogels," Biomaterials, 1996, pg. 2295-2302, vol. 17.
am	AJ		BOUIN, J.C., "Relative Efficiencies of a Soluble and Immobilized Two-Enzyme System of Glucose Oxidase and Catalase," Biochim. Biophys. Acta, 1976, pg. 23-36, vol. 438.
am	AK		BOUIN, J.C., "Parameters in the Construction of an Immobilized Dual Enzyme Catalyst," Biotechnol., Bioeng., pg. 179-187, vol. 18.
am	AL		BRONSTED, H., Polyelectrolyte Gels: Properties, Preparation and Application, Am. Chem. Soc., 1992, pg. 285-305, Washington, D.C.
am	AM		CHRISTAKIS, O.M., "On the Mechanism of Immobilized Glucose Oxidase Deactivation by Hydrogel Peroxide," Biotechnol. Bioeng., 1982, pg. 2419-2439, vol. 21.
am	AN		GHANDEHARI, H., "Biodegradable and pH Sensitive Hydrogels: Synthesis by a Polymer-Polymer Reaction," J. Macrol. Chem. Phys., 1996, pg. 197-980. Vol. 197.
am	AO		GOUGH, D.A. and LUCISANO, "Transient Response of the Two-Dimensional Glucose Sensor," J., Anal. Chem., 1998, pg. 1272-1281, vol. 60.
am	AP		GOUGH, D.A., "Two-Dimensional Enzyme Electrode Sensor for Glucose," Anal. Chem., 1985, pg. 2351-2357, vol. 57.
am	AR		GOUGH, D.A., "Progress Toward a Potentially Implantable, Enzyme-Based Glucose Sensor," Diabetes Care, 1982, pg. 190-198, vol. 5.
am	AS		ISHIHARA, L., "Glucose Induced Permeation Control of Insulin through a Complex Membrane Consisting of Immobilized Glucose Oxidase and Poly(amino)," Polym. J., 1984, pg. 625-631, vol. 16.
am	AT		ISHIHARA, K., "Control of Insulin Permeation through a Polymer Membrane With Responsive Function for Glucose," Makrol. Chem. Rapid Commun., 1983, pg. 327-331, vol. 4.
am	AU		ITO, Y., "An Insulin-Releasing System that is Responsive to Glucose," J. Controlled Release, 1989, pg. 195-203. Vol. 10.
am	AV		JUNG, D.Y., "Catalase Effects on Glucose-Sensitive Hydrogels," Macrol., 2000, pg. 3332-3336, vol. 9.

RECEIVED
JUL 27 2001
TECH CENTER 1600/2B00

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
LIST OF PRIOR ART CITED BY APPLICANT

JUL 24 2001

Sheet 2 of 2

AW	KIM, S. W., "Hydrogels: Swelling, Drug Loading, and Release," <i>Pharm. Res.</i> , 1992, pg. 283-290, vol. 9.
AX	KLUMB, L.A., "Design of Insulin Delivery Devices Based on Glucose Sensitive Membranes," <i>J. Controlled Release</i> , 1992, pg. 59-79, vol. 18.
AY	KOST, J., "Glucose-Sensitive Membranes Containing Glucose Oxidase: Activity, Swelling and Permeability Studies," <i>Biomed. Mater. Res.</i> , 1985, pg. 1117-1133, vol. 19.
AZ	KRYSTEVA, M.A., "Multienzyme Membranes for Biosensors," <i>J. Chem. Tech, Biotech.</i> , 1992, pg. 13-18, vol. 54.
BA	OWUSU, R.K., "Flow Microcalorimetric Study of Immobilized Enzyme Kinetics Using the Co-Immobilized Glucose Oxidase-Catalase System," <i>Biochim. Biophys. Acta</i> , 1986, pg. 83-91, vol. 872.
BB	PHILIPPOVA, O., "pH-Responsive Gels of Hydrophobically Modified Poly(acrylic acid)," <i>Macrol.</i> , 1997, pg. 8278-8285, vol. 30.
BC	PRENOSIL, J.E., "Immobilized Glucose Oxidase-Catalase and Their Deactivation in a Differential-Bed Loop Reactor," <i>Biotechnol. Bioeng.</i> , 1979, pg. 89-109, vol. 21.
BC	RAO, J.K., "Implantable Controlled Delivery Systems for Proteins Based on Collagen-pHEMA Hydrogels," <i>Biomaterials</i> , 1994, pg. 383-389, vol. 16.
BD	REACH, G., "Can Continuous Glucose Monitoring Be Used for the Treatment of Diabetes," <i>Anal. Chem.</i> , 1992, pg. 381-386, vol. 64.
BE	SATO, S., "Self-Regulating Insulin Delivery Systems," <i>J. Controlled Release</i> , 1984, pg. 67-77, vol. 1.
BF	SCHOTT, H., "Kinetics of Swelling of Polymers and Their Gels," <i>J. Pharm. Sci.</i> , 1992, pg. 467-470, vol. 81.
BG	SERRES, A., "Temperature and pH-Sensitive Polymers for Human Calcitonin Delivery," <i>Pharm. Res.</i> , 1996, pg. 196-201, vol. 13.
BH	SIEGEL, R.A., "pH-Dependent Equilibrium Swelling Properties of Hydrophobic Polyelectrolyte Copolymer Gels," <i>Macromolecules</i> , 1988, pg. 3254-3259, vol. 21.
BI	TEIJON, J.M., "Cytarabine Trapping in Poly(2 hydroxyethyl methacrylate) Hydrogels: Drug Delivery Studies," <i>Biomaterials</i> , 1997, pg. 383-388, vol. 18.
BJ	VAKKALANKA, S.K., "Temperature- and pH-sensitive Terpolymers for Modulated Delivery of Streptokinase," <i>J. Biomater. Poly. Sci.</i> , 1996, pg. 119-129, ed. 8.
BK	WASSERMAN, B.P., "High-Yield Method for Immobilization of Enzymes," <i>Biotechnol Bioeng.</i> , 1980, pg. 271-287, vol. 22.
BL	WILKINS, E.S., "Towards Implantable Glucose Sensors: A Review," <i>J. Biomed. Eng.</i> , 1989, pg. 354-361, vol. 11.
BM	WINGARD, Jr., L. B., "Immobilized Enzyme Electrodes for the Potentiometric Measurement of Glucose Concentration: Immobilization Techniques and Materials," <i>J. Biomed. Mater. Res.</i> , 1979, pg. 921-935, vol. 13.
BN	
BO	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1448		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Application Number	09/824,552
LIST OF PRIOR ART CITED BY APPLICANT				Filing Date	April 2, 2001
				First Named Inventor	In Suk Han
				Group Art Unit	
				Examiner Name	
Sheet 1 of 1				Attorney Docket	1527.MBIO.NP

U.S. PATENT DOCUMENTS							
EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>am</i>	AA	4,655,880	Apr. 7, 1987	Liu	2.04	TECH. COMM. 1600/2900	
<i>am</i>	AB	5,431,160	Jul. 11, 1995	Wilkins	128	635	
	AC						
	AD						
	AE						
	AF						
	AG						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>am</i>	AH	WO 99/17095	8 April 1999	European	1	1	
OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)							
	AI						
	AJ						
EXAMINER <i>[Signature]</i>				DATE CONSIDERED <i>6/2/03</i>			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.